



09/960226

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	ROSE et al.	Examiner:	unknown
Serial No.:	09/960226	Group Art Unit:	1615
Filed:	September 21, 2001	Docket No.:	12243.19USU1
Title:	MANNOSIDASE STRUCTURES		

RECEIVED
AUG 6 2002 #9
TECH CENTER 1600/2900
8-27-02

CERTIFICATE UNDER 37 CFR 1.8:

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on August 19, 2002.

By: 

Name: Nicole Landree

INFORMATION DISCLOSURE STATEMENT (37 C.F.R. § 1.97(b))

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted before the mailing date of a first Office Action on-the-merits. Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

In accordance with 37 C.F.R. § 1.98(a)(2), a copy of each document or other information listed on the enclosed Form 1449 is provided.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.


Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Please charge any additional fees or credit any overpayment to Deposit Account No. 13-2725.

Respectfully submitted,

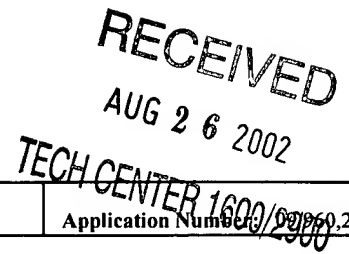
MERCHANT & GOULD P.C.
P.O. Box 2903
Minneapolis, MN 55402-0903
(612)332.5300

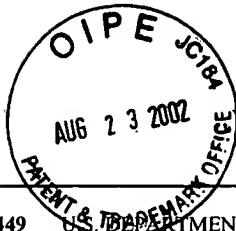
Dated: August 19, 2002

By: 
Douglas P. Mueller
Reg. No. 30,300

DPM/nel



Page 1 of 3



RECEIVED

AUG 26 2002

TECH CENTER 1600/2000
Application Number: 09/007220

Form PTO-1449
U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

DOCKET NUMBER: 12243.10-US-U1

APPLICANT(S): ROSE, David et al

FILING DATE: September 21, 2001

GROUP ART UNIT

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

- | | |
|-----|--|
| 6. | Cowtan, K. (1994). 'dm': an automated procedure for phase improvement by density modification. CCP4 ESF-EACBM Newslett. Protein Crystallogr. 31, 34-38 |
| 7. | Davies, G., et al (1995). Structures and mechanisms of glycosyl hydrolases. Structure 3, 853-859 |
| 8. | Dennis, J.W., et al (1985). Recognition of asparagine-linked oligosaccharides on murine tumor cells by natural killer cells. Cancer Res. 45, 6034-6040 |
| 9. | Dennis, J.W., et al (1999a) Protein glycosylation in development and disease. Bioessays 21, 412-421 |
| 10. | Dennis, J.W., et al (1999b) Glycoprotein glycosylation and cancer progression. Biochim. Biophys. Acta 1473, 21-34 |
| 11. | Goss, P.E., et al (1995). Inhibitors of carbohydrate processing, A new class of anticancer agents. Clin. Cancer Res. 1, 935-944 |
| 12. | Goss, P.E., et al (1997). Phase IB clinical trial of the oligosaccharide processing inhibitor swainsonine in patients with advanced malignancies. Clin. Cancer Res. 3, 1077-1086 |
| 13. | Harpaz, N. et al (1980). Control of Glycoprotein Synthesis. V. Processing of asparagine-linked oligosaccharides by Golgi alpha-D-mannosidases dependent on the prior action of UDP-N-acetylglucosamine:alpha-D-mannoside beta-2-N-acetylglucosaminyltransferase I. J. Biol. Chem. 255, 4894-4902 |
| 14. | Henrissat, B. (1991). A classification of glycosyl hydrolases based on amino-acid sequence similarities. Biochem. J. 280, 309-316 |
| 15. | Herscovics, A. (1999). Importance of glycosidases in mammalian glycoprotein biosynthesis. Biochim. Biophys. Acta 1473, 96-107 |
| 16. | Howard, S., et al (1998). Identification of the active site nucleophile in Jack-bean alpha-mannosidase using 5-fluoro-beta-L-gulosyl fluoride. J. Biol. Chem. 273, 2067-2072 |
| 17. | Jones, TA, et al (1991). Improved methods for building protein models in electron density maps and the location of errors in these models. Acta Crystallogr. A 47, 110-119 |
| 18. | Kausal, G.P., et al (1990). Purification to homogeneity and properties of mannosidase II from mung bean seedlings. Biochemistry 29, 2168-2176 |
| 19. | Kiyohara, T., et al (1987). Double restriction in NK cell recognition is linked to transmethylation and can be triggered by asparagine-linked oligosaccharides on tumor cells. Cell. Immunol. 106, 223-233 |
| 20. | Kornfeld R., et al (1985). Assembly of asparagine-linked oligosaccharides. Annu. Rev. Biochem. 54, 631-664 |
| 21. | Kraulis, P. (1991). Molscript: a program to produce both detailed and schematic plots of protein structures. J. Appl. Crystallogr. 24, 946-950 |
| 22. | Merritt, E.A., et al (1997). Raster3D: photorealistic molecular graphics. Methods Enzymol. 277, 505-524 |
| 23. | Moremen K.W., et al (1994). Glycosidases of the asparagine-linked oligosaccharide processing pathway. Glycobiology. 4, 113-125 |
| 24. | Moremen, K.W. et al (1985). Biosynthesis and modification of Golgi mannosidase II in HeLa and 3T3 cells. J. Biol. Chem. 260, 6654-6662 |
| 25. | Moremen, K.W. et al (1986). Topology of mannosidase II in rat liver Golgi membranes and release of the catalytic domain by selective proteolysis. J. Biol. Chem. 261, 10945-10951 |
| 26. | Nicholls A., et al (1991). Protein folding and association: insights from the interfacial and thermodynamic properties of hydrocarbons. Proteins 11 281-296 |
| 27. | Rabouille, C., et al (1999) The Drosophila GMII gene encodes a Golgi a-mannosidase II. J. Cell Sci. 112, 3319-3330 |
| 28. | Ren, J., et al (1997). Purification and properties of alpha-mannosidase II from Golgi-like membranes of baculovirus-infected <i>Spodoptera frugiperda</i> (IPLB-SF-21AE) cells. Biochem. J. 324, 951-956 |
| 29. | Schmidt, A., et al (1998). Structure of xylanase from <i>Penicillium simplicissimum</i> . Protein Sci. 7(10), 2081-8 |

***EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

